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DIALOG(R) File 351:Derwent WPI  
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IM- \*Image available\*

AA- 1995-070330/199510|

XR- <XRAM> C95-031467|

TI- Simple purificn. of cereal-derived proteinous lipase inhibitor - by adding sodium chloride, absorbing on hydrophobic gel for chromatography and linear gradient eluting with e.g. ethanol|

PA- KYODO NYUGYO KK (KYOD )|

NC- 001|

NP- 001|

PN- JP 6345800 A 19941220 JP 93163869 A 19930610 199510 B|

AN- <LOCAL> JP 93163869 A 19930610|

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FD- JP 6345800 A C07K-015/10|

LA- JP 6345800(4)|

AB- <BASIC> JP 6345800 A

Purificn. of cereal derived proteinous lipase inhibitor by (1) adding NaCl or (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>, pref. NaCl to the crude inhibitor; (2) adsorbing on hydrophobic gel for chromatography and (3) linear gradient eluting with salt, MeOH or EtOH, pref. EtOH. Also claimed are (i) hydrolysis of cereal-derived crude lipase inhibitor with sugar hydroxylase, pref. cellulase; (ii) removal of low mol. wt. fraction with ultrafiltration membrane.

Pref. salting out with NaCl and linear gradient elution with EtOH. Seeds of plants as sources of cereal derived proteinous lipase inhibitor.

ADVANTAGE - Simple procedure for elimination of soluble sugars to give purified proteinous lipase inhibitor.

In an example, in 3-fold vol. of 0.1M Tris-HCl buffer contg. 5 mM Ca(OAc)<sub>2</sub> and 1M NaCl, pH 7.4, commercial wheat flour was added and extracted. Extract was added with (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub> up to 10% satn. and filtered with conventional filter and then with ultrafiltration membrane to give retentant of mol. wt. of 100K. Recovered retentant was lyophilised to give crude inhibitor. Crude inhibitor was dissolved in 3M NaCl, filtered and the filtrate was adsorbed in column of 'Butyl Toyopearl' RTM, washed with soln.. Adsorbed column was linearly eluted with NaCl and EtOH up to 100 v/v% to give purified inhibitor.

Dwg.0/2|

